USSN 09/847,134 Attorney Docket No. 0994.00131

VERSION SHOWING MARKED CHANGES

IN THE CLAIMS:

- Canceled.
- 2. Canceled.
- 3. (Previously Presented) A compound comprising a metal complexed with a chelating group attached to a gastrin releasing peptide (GRP) receptor agonist, the gastrin releasing peptide receptor agonist including a bombesin agonist binding moiety, said compound having a structure of the formula X-Y-B wherein X is a metal chelating group, Y is a spacer group or covalent bond and B is a gastrin releasing peptide receptor agonist which includes a bombesin agonist binding moiety and Y is selected from the group consisting of at least one amino acid residue, a hydrocarbon chain and a combination thereof.
- 4. (Currently Amended) The compound of claim 3 wherein X is selected from the group consisting of DOTA, DTPA, S4, N3S, N2S2, and NS3 and derivatives-thereof.
- 5. (Original) The compound of claim 4 wherein Y is selected from the group consisting of at least one amino acid residue, a hydrocarbon chain and a combination thereof and B is selected from the group consisting of BBN(7-14) and BBN(8-14).
- 6. (Currently Amended) The compound of claim 4 wherein X is DOTA er-a derivative thereof.
- 7. (Original) The compound of claim 6 wherein Y is selected is selected from the group consisting of at least one amino acid residue, a hydrocarbon chain and a combination thereof and B is selected from the group consisting of BBN(7-14) and BBN(8-14).
- 8. (Original) The compound of claim 7 wherein Y is a combination of L-glutamine and a hydrocarbon chain.
- 9. (Original) The compound of claim 8 wherein Y is a combination of L-glutamine and a C1 to C10 hydrocarbon chain.
- 10. (Original) The compound of claim 9 wherein Y is selected from the group consisting of glycine, β-alanine, gamma-aminobutanoic acid, 5-aminovaleric acid (5-

USSN 09/847.134 Attorney Docket No. 0994.00131

- Ava), 6-aminohexanoic acid, 7-aminoheptanoic acid, 8-aminooctanoic acid (8-Aoc), 9aminononanoic acid, 10-aminodecanoic acid and 11-aminoundecanoic acid (11-Aun).
- (Currently Amended) The compound of claim 4 wherein X is N3S or a derivative-thereof.
- 12. (Original) The compound of claim 11 wherein Y is selected from the group consisting of at least one amino acid residue, a hydrocarbon chain and a combination thereof and B is selected from the group consisting of BBN(7-14) and BBN(8-14).
 - (Original) The compound of claim 12 wherein Y is gly-ser-gly.
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- 15.7.7 (Previously Presented) A complex comprising a metal and a compound the text having a structure of the formula X-Y-B wherein X is a metal chelating group, Y is a spacer group or covalent bond and B is a gastrin releasing peptide (GRP) receptor agonist, the GRP receptor agonist including a bombesin agonist molety and the metal is a second seco selected from the group consisting of transition metals, lanthanides, auger-electron emitting isotopes, and α-, β- or γ-emitting isotopes.
- And the Landwell 6.0 4 (Previously Presented). The complex of claim 15 wherein the metal is the charge selected from the group consisting of: 105Rh-, 99mTc-, 186/188Re-, 153Sm-, 166Ho-, 111ln-, 90Y-, 177Lu-, 149Pm-, 166Dy-, 175Yb-, 199Au- and 117mSn-, 199Au- and 117mSn-, 199Au- 199Au-
- 17. (Currently Amended) The complex of claim 16 wherein X is selected from the group consisting of DOTA, DTPA, S4, N3S, N2S2, and NS3 and derivatives thereof.
- (Original) The complex of claim 17 wherein Y is selected from the group consisting of at least one amino acid residue, a hydrocarbon chain and a combination thereof and B is selected from the group consisting of BBN(7-14) and BBN(8-14).
 - (Currently Amended) The complex of claim 16 wherein X is DOTA er a 19. derivative thereef.
 - 20. (Original) The complex of claim 19 wherein Y is selected is selected from the group consisting of at least one amino acid residue, a hydrocarbon chain and a combination thereof and B is selected from the group consisting of BBN(7-14) and BBN(8-14).
 - 21. (Original) The complex of claim 20 wherein Y is a combination of Lglutamine and a hydrocarbon chain.

USSN 09/847,134 Attorney Docket No. 0994.00131

- 22. (Original) The complex of claim 21 wherein Y is a combination of Lglutamine and a C1 to C10 hydrocarbon chain.
- 23. (Original) The complex of claim 22 wherein Y is selected from the group consisting of glycine, β-alanine, gamma-aminobutanoic acid, 5-aminovaleric acid (5-Ava), 6-aminohexanoic acid, 7-aminoheptanoic acid, 8-aminooctanoic acid (8-Aoc), 9aminononanoic acid, 10-aminodecanoic acid and 11-aminoundecanoic acid (11-Aun).
- 24. (Original) The complex of claim 23 wherein Y is 8-aminooctanoic acid.
 - 25. (Original) The complex of claim 23 consisting of 90Y-DOTA-8-Aoc-BBN(7-14)NH2.
- 26. (Original) The complex of claim 23 consisting of 111in-DOTA-8-Aoc-The Box BBN(7-14) NH2: Some of the state of
- 27. (Original) The complex of claim 23 consisting of 177Lu-DOTA-8-Acc-Hartine (BBN (7-14), NH2. The Committee of the Committee
- And the second s BBN(7-14) NH2.
- Original) The complex of claim 23 consisting of 90Y-DOTA-5-Ava-BBN(7-### ### **################**
 - 30. (Original) The complex of claim 23 consisting of 1111n-DOTA-5-Ava-BBN(7-14) NH2.
- 31. (Original) The complex of claim 23 consisting of 177Lu-DOTA-5-Avaand the state of the second of BBN(7-14) NH2.
 - 32. (Original) The complex of claim 23 consisting of 149Pm-DOTA-5-Ava-Andrew Control of the BBN(7-14) NH2.
 - 33. (Currently Amended) The complex of claim 16 wherein X is N3S er a derivative-thereof.
 - 34. (Original) The complex of claim 33 wherein Y is selected from the group consisting of at least one amino acid residue, a hydrocarbon chain and a combination thereof and B is selected from the group consisting of BBN(7-14) and BBN(8-14).
 - 35. (Original) The complex of claim 34 wherein Y is gly-ser-gly.
 - 36. (Original) The complex of claim 34 consisting of 99mTc-N3S-gly-ser-gly-BBN(7-14)NH2.

USSN 09/847,134 Attorney Docket No. 0994.00131

- 37. Canceled.
- 38. (Previously Presented) A method of treating patients using radioisotope therapy by administering an effective amount of a pharmaceutical comprising a metal complex with a chelating group with a GRP receptor agonist, the GRP receptor agonist including a bombesin agonist moiety the complex comprising a metal and a compound having a structure of the formula X-Y-B wherein X is a metal chelating group, Y is a spacer group or covalent bond and B is a gastrin releasing peptide receptor agonist which includes a bombesin agonist binding moiety.
 - 39. (Original) The method of claim 38 wherein the metal is selected from the group consisting of transition metals, lanthanides, auger-electron emitting isotopes, and α -, β or γ -emitting isotopes.
 - 40. (Original) The method of claim 38 wherein the metal is selected from the group consisting of: 105Rh-, 99mTc-, 186/188Re-, 153Sm-, 166Ho-, 111In-, 90Y-, 177Lu-, 149Pm-, 166Dy-, 175Yb-, 199Au- and 117mSn-.
 - 41. (Currently Amended) The method of claim 40 wherein X is selected from the group consisting of DOTA, DTPA, S4, N3S, N2S2, and NS3 and derivatives thereof.
 - 42. (Currently Amended) The method of claim 41 wherein X is DOTA or a derivative thereof.
- 43. (Original) The method of claim 42 wherein Y is selected from the group consisting of at least one amino acid residue, a hydrocarbon chain and a combination thereof and B is selected from the group consisting of BBN(7-14) and BBN(8-14).
- 44. (Original) The method of claim 43 wherein Y is a combination of L-
 - 45. (Original) The method of claim 44 wherein Y is selected from the group consisting of glycine, β-alanine, gamma-aminobutanoic acid, 5-aminovaleric acid (5-Ava), 6-aminohexanoic acid, 7-aminoheptanoic acid, 8-aminooctanoic acid (8-Aoc), 9-aminononanoic acid, 10-aminodecanoic acid and 11-aminoundecanoic acid (11-Aun).
 - 46. (Original) A method of imaging a patient by administering to a subject a diagnostically effective amount of a compound as set forth in claim 1.
 - 47. (Original) The method of claim 46, wherein said method includes administering an effective amount of a complex comprising a metal and a compound

USSN 09/847,134 Attorney Docket No. 0994,00131

having a structure of the formula X-Y-B wherein X is a metal chelating group, Y is a spacer group or covalent bond and Blis a gastrin releasing peptide receptor agonist ... which includes a bombesin agonist binding moiety.

- 48. (Original) The method of claim 47 wherein the metal is selected from the group consisting of transition metals, lanthanides, auger-electron emitting isotopes, and α-, β- or y-emitting isotopes.
 - 49. (Currently Amended) The method of claim 48 wherein X is selected from the group consisting of DOTA, DTPA, S4, N3S, N2S2, and NS3 and derivatives thereof.
 - 50. (Currently Amended) The method of claim 49 wherein X is N3S er a derivative-thereof.
 - 51. (Original) The method of claim 50 wherein Y is selected is selected from the group consisting of at least one amino acid residue, a hydrocarbon chain and a combination thereof and B is selected from the group consisting of BBN(7-14) and with Sign BBN(8-14).
 - 52. (Original) The method of claim 51 wherein Y is gly-ser-gly.
 - 53. (Previously Presented) A method of forming a therapeutic or diagnostic compound comprising the step of reacting a metal complexed with a chelating group with a GRP receptor agonist the receptor agonist including a bombesin agonist molety.
 - 54. (Original) The method of claim 53, wherein said method includes reacting a metal with a compound having a structure of the formula X-Y-B wherein X is a metal chelating group, Y is a spacer group or covalent bond and B is a gastrin releasing peptide receptor agonist which includes a bombesin agonist binding moiety.
 - (Original) The method of claim 54 wherein the metal is selected from the 55. group consisting of transition metals, lanthanides, auger-electron emitting isotopes, and α -, β - or γ -emitting isotopes.
 - 56. (Original) The method of claim 54 wherein the metal is selected from the group consisting of: 99mTc- and 186/188Re-.
 - (Original) The method of claim 56 wherein Y is selected is selected from the group consisting of at least one amino acid residue, a hydrocarbon chain and a combination thereof.

USSN 09/B47.134 Attorney Docket No. 0994-00131

- 58. (Currently Amended) The method of claim 57 wherein X is selected from the group consisting of DOTA, DTPA, S4, N3S, N2S2, and NS3 and derivatives thereof.
 - 59. (Original) The method of claim 58 wherein B is selected from the group consisting of BBN(7-14) and BBN(8-14).
- 60. (Original) The method of claim 59 wherein X is DOTA or a derivative thereof and Y is selected from the group consisting of glycine, B-alanine, gammaaminobutanoic acid, 5-aminovaleric acid (5-Ava), 6-aminohexanoic acid, 7aminoheptanoic acid, 8-aminooctanoic acid (8-Aoc), 9-aminononanoic acid, 10aminodecanoic acid and 11-aminoundecanoic acid (11-Aun).
- (Currently Amended) The method of claim 59 wherein X is N3\$ or a derivative thereof-and Y is gly-ser-gly?

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